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A Brief Description of Our works are extended. Mines and Mining Districts

kell to the Director of the Denver Mint.

It is divided into seven districts, com- ton. A pache district has four towns, Chlo- the work. divide. The "geology of the country is in places to a width of eighteen feet. district in that position.

being some twenty miles in length by mineral. in ore to its full capacity for many some showing native silver.

the mining districts of the world."

cannot be conducted like any other in depth.

Range district; second, Apache district; and Shorty have shafts of different the vein showing good mineral.

gro district has one, Edwards' Camp. The latter is down 180 feet, with a drift wide. Palomas district has one, Hermosa. thirty feet; in this a strata was struck The Dreadnaught is developed by about sixty feet deep in high grade sul-Perche district has two, Kingston and holding surface water, which compelled a shaft thirty-five feet in depth. The phuret ore, together with native and

crystalline limestone, forming ribs or streak of mineral, which carries free assays 255 ounces silver. its limestone cap in contact with both, struck and the tale of Aladin was told with a twenty inch streak of ore. presents to the geologist a most remark- to the world. Couriers were sent to the The Silver Monument is situated near mineral. veius vary from a few feet in width Work was continued in the primitive character is bornite assaying from two located claims. The veins run in a mentioned, to over forty feet of solid quartz, carry- style, hoisting by hand, and the proper to 400 ounces silver and eighteen per northeast and southwest direction. Lake Valley district is situated in the ing rich pay streaks from a few inches development retarded thereby, until cent. copper. to over six feet, of gray copper, copper the working capital was exhausted. of copper. The range as far south as Ivanhoe lode from \$200 to upwards of inches to two feet of mineral. the Perche district is in the midst of a \$60,000 in gold and silver to the ton. The Silver Bell, Commonwealth and Dandy, Irousides, Gen. Arthur, Excelluttle doubt in our mind but that it is

offer exceptional economical tunnel learn. their mineral character and deposition, Range district on the south running from sixty to 120 ounces silver. new and rich discoveries being con- from Bear creek to the divide between ville, Royal Arch and Black Hawk have 640 to 900 ounces silver per ton.

fifteen in width. There are some six The Buffum is situated on Dry creek, tand like walls of ore thirty to sixty large number of men both here and in there are now two or three hundred hundred recorded claims. Those having four miles northwest of Chloride. The feet high. The development on No. 2 the San Andres and Caballo mountains, thousand dollars worth stacked in the the most development are as follows: croppings have free gold in quartz is a shaft ninety feet deep and a tunnel having their headquarters at Engle. ore houses. The lower grades of ore Hiawatha, San Diego, Hawkeye, Iowa, The development is a shaft 180 feet in of 100 feet, besides other smaller shafts Columbia, California, Grand Duke, depth on a four foot vein, the mineral in different places on the ledge. The Mammoth and Delphi. These are im- averaging about thirteen inches from ore is a Chloride highly impregnated mineral and has several hundred re- to the Philadelphia market. proved by shafts ranging from fifteen the surface. Several mill-runs give re- with sulphide of silver, this metal being corded claims, many of which are very The climate of this section of New to thirty feet, the veins showing a width turns of upwards of 100 ounces per found in silicate of lime and porphyry promising for the amount of work Mexico has all the health giving princiof from two to six feet, and the mineral ton. The ore is a copper glance with together with native and wire silver, done. The ore throughout the district ples of Colorado without the cold rigors from a few inches to two feet, assays sulphurets and chlorides. There are The vein is from three four to feet and is not so much exposed on the surface and deep snows of winter. It is specially ranging from thirty to five hundred about fifty tons on the dump. This is the ore from eight to twenty-two inches as in the Apache district, yet the veins adapted to those afflicted with pulmonounces in silver and traces of gold. The a strong vein and highly mineralized, wide. Occidental has a shaft 220 feet in depth The Ready Relief, Buckeye, Ontario, The Apache, Nane, Old Vic, Sunrise, fined. Developments show the mineral of the range is about sixty degrees, and with several cross-cuts showing fine Centennial Bell, Solid Comfort, Mail Chieftain, Black Bear, Vulcan, Monte to be of a high grade. Palomas Chief the elevation at the different towns is mineral of black sulphurets and free Line, Fast Mail and Daisy are situated Christo, Hidden Treasure, New York has several small cuts and shafts that from 5,000 to 7,000 feet above the sea gold. On this property there is being between Dry and Mineral creeks, and Central and U.S. Treasury are on the would indicate a deposit of considera- level. The rainy season sets in about a ten stamp mill, which will be ready are developed by shafts from fifteen to same and parallel veins south of the ble extent. A tunnel has been com- July, lasting two months. Gila springs to start about the middle of January sixty feet. All show the same strong Wall Street lodes. They are all more menced that has a breast of ore the are situated twenty-five miles from the work and assays give Chloride. These waters contain the on the ore taken from the mine, and on the ore taken from the mine, and will also do custom work. Everything streaks varying from eight inches to to seventy-five feet in depth, and show returns of from 300 to 500 ounces of ed to the cure of rheumatism and other bids fair for a successful run, and as two and a half feet, with assays from a similar character of high grade ore, silver and some gold. The Antelope is chronic disorders. The celebrated Arthis is the first undertaking of the kind forty to 300 ounces per ton. The mineral assaying from forty to 400 ounces of a recent discovery in which at the depth kansas springs cannot boast of more in the range we expect it will be kept is a copper glance with gray copper and silver, carrying some gold.

four foot vein that will mill-run \$52 view to striking the body at greater Mill-run returns sixty ounces silver Hero, Hilda, Nourse, Massive, Hard paintings of the Aztecs.

gold and silver. A continuance of this depth by cross-cuts. The ore obtained one and a half ounces gold and six and Cash, Silver Brick, Ide, Iron Mask and will insure handsome profits as the from the small stringers indicate a dif- a half per cent. copper. The Minnehaha and the Great Re- is obtained from other claims in this Hardscrabble, Prescott, Orwig, Buck- these claims slow very line carbonate public are on the same lode and show vicinity. It is an argentiferous galena skin, Dorsey, Morgan, Henry Clay and ore that will assay eighteen to fifty strongly mineralized veins. These with with considerable copper carrying gold. Iowa are situated west and south of ounces of silver to the ton, but the deothers are holding off to await the de- Assays give returns from \$20 to \$114 in the White Signal, all showing strong velopments are so meager that it is a velopment on the Occidental. Mining gold and silver. The shaft is 175 feet veins of mineral, with more or less ore hard matter to determine the size of

third, Cuchillo Negro district; fourth, depths that show mineral of a paying The El Paso and San Antonio are Limestone district; fifth, Palomas dis- character, and the want of capital to situated a little northwest of the Dread- in the range for reducing it. trict; sixth, Perche district; seventh, develop into mines is what is needed naught. The croppings are very bold Lying almost directly south of Ha- field, and the demand has nearly kept Lake Valley district. The third and to bring them into prominence, or and show a strong mineralized vein. gan's peak is the great Pye lode on pace with the supply. There are well fourth districts are not on the main works that will purchase the ores and The work of developing is a shaft forty- which are located thirteen claims, all stocked yards in each of the five towns. belt, but form a spur of the range enable owners of claims to carry on five feet in depth on the former show- more or less developed. Silver Prince, The mill has been running since Seping mineral two and a half feet in width | Queensbury, Lost Heir, Starlight, High- | tember 1881 upon the timber in its imride, Fairview, Roundyville and Robin- The Montezuma and Alaska have that will assay from 190 to 250 ounces land Chief, Way Up, King No. 2, King, mediate locality and it is estimated son. Black Range district has two, shafts. The former is down ninety per ton. The latter has a shaft fifteen Tidal Wave, Midnight, Little Kate, that 1,000,000 feet yet stands within Grafton and St. Charles. Chuchillo Ne- feet and shows some high grade ore. feet deep in good ore twenty inches Silver Plume and Hamilton. The King easy reach. This gives a good idea of

but principally of a gray and greenish are situated on the main belt of mineral on the same vein with the Dreadnaught, mill-run sixty ounces in silver. The face and to the depth of a few feet. gray porphyry, capped and flanked in and are developed by shafts. The first and shows also a strong mineralized King is developed by shafts 175 feet, Considerable development has been many places by a hard, fine grained, is down 100 feet and has a twenty meh vein. It has a shaft forty-five feet and showing a pay streak that assays from done in trying to find a vein, but indi-

natural horizontal bed by the erotic from \$500 to \$2,000. The second has a west of the Dreadnaught. It shows a a cross-cut thirty feet. This work was mineral being found in a white talc outpourings of porphyry, subsequently shaft eighty-five feet and another ten a very strong vein, highly mineralized. Intended to be driven towards Hagan's highly impregnated with the sulphide. highly crystalized by the metamorphic feet deep, showing the same character There were forty assays made of this peak, one of the highest in the range The Bullion, Superior, Illinois, Brilliant, heat, it is marked throughout this belt of ore with similar assays. The third ore during the sinking of an eighty towards which the main veins seem to Iron King, Hillsboro and Andy Johnson in a very disturbed state, but in many has a shaft 470 feet deep. When it had foot shaft, and the average of them was travel. The undertaking was prema- all show the same mineral but in a places still retaining its natural strati- reached a depth of eighty-five feet the 643 ounces silver with traces of gold. ture and for the present abandoned, more diffused state. The first twenty-U. S. Deputy Mineral Surveyor, fication, breaking through the porphyry, rich sulphurets and free gold were The vein is three and a half feet wide though we think if prosecuted would three tons of ore from the Bullion lode.

glance highly argentiferous with black since which time it has remained idle, Chloride gulch about nine miles from of copper carrying silver. The formasulphurets, chlorides and native silver, to the detriment of the country, as the Chloride, and show strong mineralized tion is of the same character as the where the rich deposits of chloride are Groceries, Tobaccos, Liquors and gold more or less disseminated property is a good one. This, with the veins, developed by shaft and tunnel main belt. The principal developed found it is of greater thickness than throughout the mass. Besides these two former claims, has a strong miner- 112 and fifty feet. Assays ninety to 130 claims are the Black Knife, German, near the rising ground. This wonder veins of rich ores, beds of red quartzite alized vein, being true fissures between ounces silver and from twenty to sixty Ride Shot, New York, Campbell, Storm, is also a blanket contact in the same are met with richly impregnated with lime and porphyry. Prof. Silliman, of per cent. copper. The veins are four Picayune, Letter B, Evening Star, St. formation. The conjectures as to this southwest Cor. of Square, FAIRVIEW, N. M. native, carbonate, red and black oxide Yale, made assays of the ore from the and six feet in width with from eighteen Elmo, Star of Hope, Mexican, Moon-chloride formation or deposit are varied.

well wooded and watered country some ore was shipped and worked-the Ledger are south of Chloride gulch sior, Copper Queen, Star of the West, the action of thermoral waters charged abounding in limestone, iron and lead quantity, the returns and the place near South Fork, on a well defined ledge Good Enough and Little Luclia. The with the mineral under the pressure of ores, the bold outcropping of which where reduced we have been unable to of mineralized quartz. A shaft sixty development work is in shafts and tunfeet deep on the former shows a vein of new from ten to 200 feet. Assays as a dried up and left the iron capping. entrances for a thorough exploration of The Apache district joins the Black ore about two feet wide that will assay general rule are much less in these The Sierra companies, four in num-

about eight miles north of Wild Horse depths ranging from ten to seventy-five 2 are situated two and a half miles due company of Philadelphia own large in- silver, as the one cannot amalgamate it creek and extends south to Bear creek, feet, and show strong leads of good west of Chloride. The erosions have terests in Limestone district and will and the other cannot prevent it going

The White Signal has a shaft seventy- assay upwards of 640 ounces per ton. months at least, as the bulk of the ores The Sailor Boy, situated near Mineral five feet and a tunnel thirty feet deep. It is black sulphurets. Arrangements with attractive natural scenery surson, Game & Fresh Pork in this district are free milling and creek, has a well defined mineral vein. The vein is forty feet wide and the have been concluded to sink one hun. rounding them, and at no great distance in this district are free milling and creek, has a well defined mineral vein. The vein is forty feet wide and the carry a large percentage of gold. The considerable work has been done here, one-half interest in the property. The decorated with the hieroglyphics and

on the dump.

The Black Range is situated about tirely in one the others are just as liable the properties of the Ivanhoe company. a little south and east of Ragan's peak, indicate deep-seated mineralization. fifty-four miles almost due west from to strike a rich vein in the chimneys On the former there is a shaft 100 feet and have strong mineralized veins. The Forlorn Hope, Josie, El Pastoria, Globe, Engle station on the main line of the of ore that come to the very surface on deep with a cross-cut fifty feet in the development is a 100 foot shaft, an Day Star, Monitor, Kentucky. Little Atchison, Topeka and Santa Fe rail- these claims. Both are partially devel- ore. The vein is six feet with a two foot | eighty foot tunnel and a drift of about | Giant and Columbia are somewhat deroad. The length of the range proper oped and the showing is sufficient to mineral streak. Considerable ore has forty feet. Some sixty tons of this ore veloped and show strong, mineralized is about one hundred miles, and the warrant a continuance. Assays from been shipped by the company to mill, have been worked at Denver with an veins. mmeral belt can be traced for eighty both show gold and silver from one returns of which have not been made average yield of \$400 to the ton. The The saw mill that supplies the Bange miles by about thirty miles in width. hundred to three hundred dollars per known. Assays average 160 ounces. vein is four feet wide with from twenty with lumber is situated about four and The ore is in copper glance. The latter inches to two feet of mineral. This a half miles northwest of Grafton, and mencing at the north: First, Black The Goodenough, Ontario, Homestake claim has a shaft about twenty feet on ore is assorted and graded into three has a capacity of 10,000 feet per day, classes, the second and third remaining and 30,000 shingles. This has been kept on the dump as there are no facilities almost constantly running during the

result in the finding of rich veins of

are equally as prominent and well-de- ary complaints. The mean temperature of four feet ore was obtained that will radical cures than have been performed here without the aid of medical advis-

Summit have shafts of various depths, ferent character of mineral from what The Grand Central, Hancock, Garfield, from fifteen feet upwards. Some of the deposits or veins; the characterisbusiness, and if the ore should fail en- The Eureka and Miantenaomi are The Colossal and Woods are situated tics of the formation surrounding them

> sixteen months that it has occupied the No. 2 and Way Up have a joint shaft the extent of the timber growth of this

Perche district, situated south of the Perche City. Lake Valley district has a suspension of work until machinery vein is eight feet and the mineral four ruby silver. Assays from 200 to 900 Palomas, has several hundred recorded three, Nutt. Daly and Sierra City. The was put in place to reduce the difficulty. feet wide, gray copper and copper ounces in silver. Mill-run 142 ounces claims and shows some of the most range is embraced by parts of three This is now being accomplished and glance, assaying from 150 to 375 ounces The Highland Chief ore is chlorides striking features of mineral yet discovcounties, Secorro, Grant and Dona Ana, work on drift and shaft will be resumed in silver and ten to thirty per cent with sulphide of silver, and assays from ered in this wonderful range. The float in which the thousand claims are re- before the first of January. Assays of copper, mill-runs eighty ounces silver 200 to 1,000 ounces. Queensbury and on the Soltaire and St. Clair lodes is the corded. The line of the mineral is in these ores run from \$200 to \$500 in gold and eleven and a half per cent copper. Silver Prince have considerable argen- pure sulphides of silver. Assays of a northwest and southeast direction and silver. These properties are owned The walls are limestone and porphyry, tiferous galena on the surface. The chunks varying in size from one-half through the high spurs of the range, up by Chicago parties, and indicate great and here the Devonian line comes to Tidal Wave and Midnight are developed pound to over three hundred pounds to and even west of the continental promise, as the veins are large, cropping the surface, which is rarely seen in this by a shaft off the vein, which has been shows it to be from sixty-nine to eightycross-cut at fifty and eighty-five feet, three per cent. pure. There have been made up of a red stratified quartzite. The Braxton, Buckeye and Ivanhoe The Silver Glance is situated south showing a good body of ore that will several tons of this found on the surseventy to 200 ounces in silver. Hamil- cations thus far show it to be a blanket. dykes. Distorted and thrown from its gold and black suiphurets and assays The Mountain Chief is situated south- ton lode has a tunnel 100 feet with contact between lime and porphyry, the Tabor and Wurtzebach, at LakeValley, able series of true fissures filled with a nearest telegraph station to inform the the continental divide at the top of The Cuchillo Negro and Limestone and yielded upwards of \$9,000. Other quartz matrix. Their persistent struc- lucky owners, and then they incorpo- Chloride gulch. It has a strong vein of districts occupy the Cuchillo Negro shipments have been made from these ture and bold outcropping through the rated for \$5,000,000 and put the stock mineral and is developed by shaft and mountains, a spur of the Black Range. properties but we are unable to furnish porphyry, through and across the strat- on the market. This was disastrous, tunnel. The vein is eight feet wide The former lies east of the Apache and the returns. This section of country is ified limestone cap, leaves very little as they had not opened the property in with three streaks of ore that will avdoubt of their deep seated nature. These a shape to warrant this capitalization. erage about twenty-two inches. The tricts. They contain several hundred marked here than in the districts above

> the minerals are an argentiferous gale- foot hills and shows strong indications The Alta and Highland Mary are on na and the native oxides and carbonates of an extinct lake. Most parts of the skine, New Year, Ober, Champion, Blue but from its situation and cap there is

claims than those further west, but the ber, embrace some thirty-six claims. The Black Knight and Extenuate are ores are of a class that cannot be too Thedevelopment is by shafts and drifts, stantly added to the number already the waters of the Cuchillo Negro and situated at the top of the range at South highly estimated as they are the natu- exposing the mineral in chambers lined named. The amount of high and low Palomas creeks. It is about fifteen Fork. They show a large outcropping ral fluxes to the higher grades on the with the chlorides of silver, some of grade ores now exposed on the dumps miles square. There are not less than vein highly mineralized, developed by main belt. The company owning the which will yield sixty-five per cent. of the developed and those now being one thousand recorded claims in this a shaft and tunnel. The ore streak is Black Knifebave erected a water jacket | There is a forty stamp mill that was developed is sufficient to place these district. The May, Little Pittsburg, about ten inches, of high grade ore, smelter of ten tons capacity, that is erected by the companies, and also mineral deposits in the front ranks of Patagonia, Nordhausen No. 1, Nash- being a sulphuret. Assays range from completed and about to be fired up. It sampling works owned by Messrs. Tawill add greatly to the importance of bor and Wurtz-bach. Neither of these The Black Range district commences been opened by shafts or tunnels to The Wall Street and Wall Street No. these districts. The Humboldt Mining works are capable of reducing this horn denuded the mineral veins so that they push work vigorously. They employ a off in the fumes, and the result is that Palomas district is situated south of have been worked to advantage, and the Apache district on the main belt of considerable bullion has been shipped

ors. They are in a beautiful valley